



**Air Quality  
TIER I OPERATING PERMIT**

**State of Idaho  
Department of Environmental Quality**

**PERMIT No.:** T1-2008.0167

**FACILITY ID No.:** 057-00025

**AQCR:** 62

**CLASS:** A

**ZONE:** 11

**SIC:** 8221

**NAICS:** 611310

**UTM COORDINATE (km):** 499.0, 5175.0

**1. PERMITTEE**

University of Idaho

**2. PROJECT**

Tier I Administrative Amendment to Incorporate PTC P-2008.0079

**3. MAILING ADDRESS**

1108 W. 6<sup>th</sup> St.

**CITY**

Moscow

**STATE**

ID

**ZIP**

83844-2030

**4. FACILITY CONTACT**

Mike Lyngholm

**TITLE**

Steam Plant Manager

**TELEPHONE**

(208) 885-5247

**5. RESPONSIBLE OFFICIAL**

Fred Hutchison

**TITLE**

Director, Environmental Health  
and Safety

**TELEPHONE**

(208) 885-5247

**6. EXACT PLANT LOCATION**

Power Plant Building on Campus (corner of 6<sup>th</sup> and Line St.)

**COUNTY**

Latah

**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**

Graduate and post-graduate education and research

**8. PERMIT AUTHORITY**

This Tier I operating permit is issued pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.300 through 386. The permittee shall comply with the terms and conditions of this permit.

This permit incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality (DEQ) for the permitted source, unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210, and the permittee elects not to incorporate those terms and conditions into this operating permit.

The effective date of this permit is the date of signature by DEQ on the cover page.

**DARRIN PAMPAIAN, PERMIT WRITER**

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**MIKE SIMON, STATIONARY SOURCE PROGRAM MANAGER**

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**DATE ISSUED:**

February 1, 2008

**DATE MODIFIED/AMENDED:**

December XX, 2008

**DATE EXPIRES:**

February 1, 2013

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## Acronyms, Units, and Chemical Nomenclature

AQCR	Air Quality Control Region
ASTM	American Society of Testing and Materials
CFR	Code of Federal Regulations
CO	carbon monoxide
COMS	continuous opacity monitoring system
Department	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gal/day	gallons per day
gr	grain (1 lb = 7,000 grains)
gr/dscf	grains per dry standard cubic foot
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb	pound(s)
lb/hr	pound per hour
IC	internal combustion (refers to an engine)
MMBtu/hr	million British thermal units per hour
MMgal/day	million gallons per day
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
O&M	operations and maintenance
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers or less
sqft	square feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	oxides of sulfur
T/yr	tons per year
U.S.C.	United States Code
UTM	Universal Transverse Mercator
VOC	volatile organic compound

# AIR QUALITY TIER 1 OPERATING PERMIT NUMBER: T1-2008.0167

<b>Permittee:</b>	University of Idaho	<b>Facility ID No. 057-00025</b>
<b>Location:</b>	Moscow, Idaho	

## 1. TIER I OPERATING PERMIT SCOPE

### **Purpose**

- 1.1 This modified Tier I operating permit establishes facility-wide requirements in accordance with the Idaho control strategy and the *Rules for the Control of Air Pollution in Idaho*.
- 1.2 This Tier I permit incorporates the following permit:  
PTC No. P-2008.0079, issued September 4, 2008
- 1.3 This modified Tier I permit supersedes the following permit:  
Tier I No. T1-2007.0082, issued February 1, 2008

### **Regulated Sources**

- 1.4 Table 1.1 lists all sources of emissions regulated in this Tier I operating permit.

**Table 1.1 SUMMARY OF REGULATED SOURCES**

Permit Section	Source Description	Emissions Control
2.	<u>FACILITY-WIDE FUGITIVE DUST EMISSIONS SOURCES:</u> - Wood-waste boiler ash handling - Wood-waste fuel truck dump - Paved roads and parking lots - Unpaved roads and parking lots	Fugitive emissions – Reasonable control of fugitive emissions
3.	<u>WOOD WASTE-FIRED BOILER:</u> S-BA– Solid Fuels, Inc. (furnace section) and Nebraska (boiler section) wood waste-fired boiler with a steam generation rate of 66,800 lb-steam/hr and a heat input rating of 88.4 MMBtu/hr	Multiclone
4.	<u>NATURAL GAS-FIRED BOILERS:</u> S-BB – Cleaver-Brooks natural gas-fired boiler model #DLD-76 with a rated heat input capacity of 82.5 MMBtu/hr S-BC – Babcock & Wilcox natural gas-fired boiler with a rated heat input capacity of 78.6 MMBtu/hr S-BD – Combustion engineering natural gas-fired boiler model #NB-242 with a rated heat input capacity of 42.9 MMBtu/hr	S-BB – Uncontrolled S-BC – Uncontrolled S-BD – Uncontrolled
5.	<u>DIESEL-FIRED IC ENGINE ELECTRICAL GENERATORS:</u> S-G01 - Kohler diesel-fired emergency IC engine model #18 NA 3160 with a rated electrical generation capacity of 350 kW – located at Gibb Hall S-G02 - Kohler diesel-fired emergency IC engine model #180ROZJ181 with a rated electrical generation capacity of 180 kW – located at the Power Plant S-G03 - Caterpillar diesel-fired emergency IC engine model #3412 with a rated electrical generation capacity of 500 kW – located at McClure Hall	S-G01 – Uncontrolled S-G02 – Uncontrolled S-G03 – Uncontrolled

**[PTC No. P-2008.0079, 9/4/2008]**

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## 2. FACILITY-WIDE CONDITIONS

The following table contains a summary of requirements that apply generally to emissions units at the facility.

**Table 2.1 APPLICABLE REQUIREMENTS SUMMARY**

Permit Condition	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
2.1	Fugitive Dust	Reasonable Control	IDAPA 58.01.01.650-651	2.2, 2.3, 2.4, 2.11, 2.12
2.5	Odors	Reasonable Control	IDAPA 58.01.01.775-776	2.6, 2.11, 2.12
2.7	Visible Emissions	20% opacity for no more than three minutes in any consecutive 60-minute period	IDAPA 58.01.01.625	2.8, 2.11, 2.12
2.9	Excess Emissions	Compliance with IDAPA 58.01.01.130-136	IDAPA 58.01.01.130-136	2.9-2.9.5, 2.11, 2.12
2.14	Sulfur Content	ASTM Grade 1 fuel oil – 0.3% by weight and ASTM Grade 2 fuel oil – 0.5% by weight	IDAPA 58.01.01.728	2.11, 2.12, 2.14.1-2.14.2
2.15	Open Burning	Compliance with IDAPA 58.01.01.600-616	IDAPA 58.01.01.600-616	2.11, 2.12
2.16	Renovation/ Demolition	Compliance with 40 CFR 61, Subpart M	40 CFR 61, Subpart M	2.11, 2.12
2.17	Regulated Substance for Accidental Release Prevention	Compliance with 40 CFR 68	40 CFR 68	2.11, 2.12
2.18	Recycling and Emissions Reductions	Compliance with 40 CFR 82, Subpart F	40 CFR 82, Subpart F	2.11, 2.12

### ***Fugitive Dust***

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.  

**[IDAPA 58.01.01.650-651, 5/1/94]**
- 2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (e.g., water, chemical dust suppressants) to reasonably control fugitive dust emissions.  

**[IDAPA 58.01.01.322.06, 07, 5/1/94]**
- 2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.  

**[IDAPA 58.01.01.322.06, 07, 5/1/94]**

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- 2.4 The permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive dust emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive dust emissions are effective. If fugitive dust emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive dust emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive dust emissions, and the date the corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94]

### ***Odors***

- 2.5 The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
- 2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

[IDAPA 58.01.01.775-776 (state only), 5/1/94]

[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

### ***Visible Emissions***

- 2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.

[IDAPA 58.01.01.625, 4/5/00]

- 2.8 The permittee shall conduct a monthly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. Sources that are monitored using a continuous opacity monitoring system (COMS) are not required to comply with this permit condition. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either

a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).

or

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b) perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20%, as measured using Method 9, for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

## **Excess Emissions**

### *Excess Emissions - General*

- 2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between Permit Condition 2.9 and the regulations of IDAPA 58.01.01.130-136.
- 2.9.1 The person responsible for or in charge of a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate and reasonable action to correct the conditions causing the excess emissions event; to reduce the frequency of occurrence of such events; to minimize the amount by which the emission standard is exceeded; and shall, as provided below or upon request of DEQ, submit a full report of such occurrence, including a statement of all known causes, and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

### *Excess Emissions – Startup, Shutdown, Scheduled Maintenance*

- 2.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emission unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to, the following:

[IDAPA 58.01.01.133, 4/5/00]

- A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory or a Wood Stove Curtailment Advisory has been declared by DEQ.

[IDAPA 58.01.01.133.01.a, 3/20/97]

- Notifying DEQ of the excess emissions event as soon as reasonably possible, but no later than two hours prior to, the start of the event, unless the owner or operator demonstrates to DEQ's satisfaction that a shorter advance notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

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- The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]

*Excess Emissions – Upset, Breakdown, or Safety Measures*

- 2.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/5/00]

- 2.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:

[IDAPA 58.01.01.134.02, 4/5/00]

- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.

[IDAPA 58.01.01.134.02.a, 4/5/00]

- The owner or operator shall notify DEQ of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the owner or operator demonstrates to DEQ's satisfaction that the longer reporting period was necessary.

[IDAPA 58.01.01.134.02.b, 4/5/00]

- The owner or operator shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.

[IDAPA 58.01.01.134.02.c, 3/20/97]

- 2.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, DEQ may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the period until such time as the condition causing the excess has been corrected or brought under control. Such action by DEQ shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.

[IDAPA 58.01.01.134.03 4/5/00]

*Excess Emissions – Reporting and Recordkeeping*

- 2.9.4 A written report for each excess emissions event shall be submitted to DEQ by the owner or operator no later than 15 days after the beginning of such an event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.

[IDAPA 58.01.01.135.01 and 02, 3/20/97]



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- 2.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. The excess emissions records shall be made available to DEQ upon request and shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:

**[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]**

- An excess emissions log book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to DEQ pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment; and

**[IDAPA 58.01.01.136.03.a, 4/5/00]**

- Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, or safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

**[IDAPA 58.01.01.136.03.b, 3/20/97]**

### ***Performance Testing***

- 2.10 If performance testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any performance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of method to be used
- Any extenuating or unusual circumstances regarding the proposed test
- The proposed schedule for conducting and reporting the test

The permittee shall submit a compliance test report for the respective test to DEQ within 30 days following the date in which a compliance test required by this permit is concluded. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

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The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following address:

Air Quality Permit Compliance  
Department of Environmental Quality  
Lewiston Regional Office  
1118 F St.  
Lewiston, ID 83501  
Phone: (208) 769-4370 Fax: (208) 769-3451

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

### ***Monitoring and Recordkeeping***

- 2.11 The permittee shall maintain sufficient records to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

### ***Reports and Certifications***

- 2.12 All periodic reports and certifications required by this permit shall be submitted to DEQ within 30 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to:

Air Quality Permit Compliance  
Department of Environmental Quality  
Lewiston Regional Office  
1118 F St.  
Lewiston, ID 83501  
Phone: (208) 769-4370 Fax: (208) 769-3451

The periodic compliance certification required by General Provision 21 shall also be submitted within 30 days of the end of the specified reporting period to:

EPA Region 10  
Air Operating Permits, OAQ-107  
1200 Sixth Ave.  
Seattle, WA 98101

[IDAPA 58.01.01.322.08, 11, 5/1/94]

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### ***Fuel-Burning Equipment***

- 2.13 The permittee shall not discharge PM to the atmosphere from any fuel-burning equipment in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676-677, 5/1/94]

### ***Sulfur Content***

- 2.14 The permittee shall not sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade 1 fuel oil - 0.3% by weight.
- ASTM Grade 2 fuel oil - 0.5% by weight.

[IDAPA 58.01.01.728, 5/1/94]

- 2.14.1 The permittee shall not sell, distribute, use, or make available for use, any coal containing greater than 1.0% sulfur by weight.

[IDAPA 58.01.01.729, 5/1/94]

- 2.14.2 The permittee shall maintain documentation of supplier verification of distillate fuel oil sulfur content on an as-received basis.

[IDAPA 58.01.01.322.06, 5/1/94]

### ***Open Burning***

- 2.15 The permittee shall comply with the *Rules for Control of Open Burning*, IDAPA 58.01.01.600-623.

[IDAPA 58.01.01.600-623, 04/02/08T]

### ***Asbestos***

- 2.16 The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M – Asbestos.

[40 CFR 61, Subpart M]

### ***Regulated Substances for Accidental Release Prevention***

- 2.17 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]

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***Recycling and Emissions Reductions***

- 2.18

The permittee shall comply with applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction.

[40 CFR 82, Subpart F]

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### 3. WOOD WASTE-FIRED BOILER (S-BA)

#### Summary Description

The primary purpose of the wood waste-fired boiler identified as S-BA is to produce steam for heating the campus in winter and to provide steam to absorption chillers to cool the campus buildings in summer. This boiler is also allowed to burn a small amount of paper waste. Table 3.1 describes the devices used to control emissions from the solid fuels wood-waste-fired boiler.

**Table 3.1 WOOD WASTE-FIRED BOILER (S-BA) DESCRIPTION**

Emissions Unit(s)/Process(es)	Emissions Control Device	Emissions Point
Wood waste-fired boiler (S-BA)	Multiclone	Exhaust stack S-BA/S-BC

[PTC No. P-2008.0079, 9/4/2008]

Table 3.2 contains only a summary of the requirements that apply to the solid fuels wood-waste-fired boiler. Specific permit requirements are listed below Table 3.2.

**Table 3.1 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Operating and Monitoring and Recordkeeping Requirements
3.1	PM <sub>10</sub>	17.24 lb/hr, 75.52 T/yr	Permit to Construct No. P-2008.0079	3.10, 3.12, 3.15
3.1	NO <sub>x</sub>	15.17 lb/hr, 71.63 T/yr	Permit to Construct No. P-2008.0079	3.15
3.1	CO	5.75 lb/hr, 164.00 T/yr	Permit to Construct No. P-2008.0079	3.15
3.2	PM	0.08 gr/dscf at 8% oxygen by volume	IDAPA 58.01.01.676	3.10, 3.15
3.3	Visible Emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	3.8

#### Emissions Limits

##### 3.1 Emissions Limits

The PM<sub>10</sub>, NO<sub>x</sub>, and CO emissions from the wood waste-fired boiler exhaust stack shall not exceed any corresponding emissions rate limits listed in Table 3.3.

**Table 3.3 WOOD WASTE-FIRED BOILER (S-BA) EMISSIONS LIMITS**

Source Description	PM <sub>10</sub>		NO <sub>x</sub>		CO	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
S-BA	17.24	75.52	15.17	71.63	5.75	164.00

[PTC No. P-2008.0079, 9/4/2008]

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<b>Permittee:</b>	University of Idaho	<b>Facility ID No. 057-00025</b>
<b>Location:</b>	Moscow, Idaho	

### 3.2 Grain Loading Limit

Particulate matter (PM) emissions from the wood waste-fired boiler stack shall not exceed 0.080 gr/dscf of effluent gas adjusted to 8% oxygen by volume as required by IDAPA 58.01.01.676.

[PTC No. P-2008.0079, 9/4/2008; IDAPA 58.01.01.676, 5/1/94]

### 3.3 Opacity Limit

Emissions from the wood waste-fired boiler exhaust stack, or any other stack, vent, or functionally equivalent opening associated with the wood waste-fired boiler exhaust, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

[PTC No. P-2008.0079, 9/4/2008; IDAPA 58.01.01.625, 4/5/00]

## **Operating Requirements**

### 3.4 Boiler Operation Limits

The maximum wood-waste boiler steam production rate shall not exceed an average of 66,800 lb/hr, based upon a three-hour rolling average.

The maximum allowable steam production rate of 66,800 lb/hr steam may be increased to a level that shall not exceed 120% of the average steam production rate attained during the most recent performance test approved by the Department. If the maximum steaming production rate of 120% of the average steam rate attained during the most recent performance test would exceed the particulate matter grain-loading standard contained in this permit, the maximum operational steaming rate shall be limited to the steaming rate obtained by the following equation:

$$\text{Max. steam rate} = \text{Ave. steam rate during test} \times \left( \frac{0.08 \text{ gr/dscf at 8\% Oxygen}}{\text{tested grain loading at 8\% Oxygen}} \right)$$

[PTC No. P-2008.0079, 9/4/2008]

### 3.5 Boiler Fuel Requirements

The wood waste-fired boiler shall burn wood fuel or a mixture of 99.5% wood and 0.5% paper-derived fuel by volume at any time. Compliance with this limitation shall be established on a rolling 12-month basis. The boiler shall not combust any contaminated wood fuels such as railroad ties, orientated strand board, particle board, plywood, painted or stained woods.

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### 3.6 Multiclone Requirements

The multiclone operation requirements are as follows:

- The multiclone shall be in operation at all times during wood-waste boiler operation.
- The multiclone pressure drop shall be maintained within the pressure drop range specified in the Operation and Maintenance (O&M) Manual.
- Routine maintenance of the multiclone shall be conducted in accordance with the O&M Manual.  
[PTC No. P-2008.0079, 9/4/2008]

### 3.7 Multiclone Operation and Maintenance Manual

The permittee shall maintain an Operation and Maintenance (O&M) Manual for the multiclone unit describing the schedule and steps taken to assure the air pollution control equipment will be properly operated and maintained. The O&M Manual shall address the operation, maintenance, and repair of the multiclone and shall include, at a minimum, the following:

- A general description of the multiclone control device.
- Normal operating conditions.
- Normal operating procedures.
- Methods of preventing malfunctions.
- Appropriate corrective actions to be taken in the case of upsets and malfunctions.
- Provisions for weekly inspections and routine maintenance schedules.

The O&M Manual shall be updated periodically as additional information is gained from performance testing and day-to-day operating experience. This manual shall remain onsite and shall be made available to Department representatives upon request.

[PTC No. P-2008.0079, 9/4/2008; 40 CFR 64.6(b)]

## ***Monitoring and Recordkeeping Requirements***

### 3.8 Boiler Continuous Opacity Monitoring

The in-stack, continuous opacity monitoring system (COMS) shall be installed, operated, calibrated, and properly maintained on the boiler stack, in accordance with 40 CFR 60.7; 40 CFR 60.13; and 40 CFR 60, Appendix B, Specification 1, except as follows:

- The COMS shall be operated in accordance with 40 CFR 60.7, except that files required by 40 CFR 60.7(f) shall be retained for at least five years following the date of measurement, maintenance, reports, or records.
- Excess emissions reports shall be submitted to the Department in accordance with the provisions of IDAPA 58.01.01.130-136.
- The COMS shall be operated in accordance with 40 CFR 60.13, except the opacity data reduction specified by 40 CFR 60.13(h) shall be reduced to demonstrate compliance with the visible emissions limitation specified by IDAPA 58.01.01.625.

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- The reduced data shall be presented numerically, and may, at the permittee's option, be presented graphically. Periods of excess emissions, as defined by IDAPA 58.01.01.006.35, which result due to startup, shutdown, and scheduled maintenance, shall be clearly identified in the reduced visible emissions documentation.
- For periods where the COMS downtime exceeds 5% of the total operating time for the reporting period, the permittee shall perform a see/no see evaluation on the wood-waste boiler stack once per day during periods where the wood-waste boiler is operating and the COMS is not operational. If visible emissions are noted, the permittee shall perform a Method 9 opacity determination in accordance with the procedures outlined in IDAPA 58.01.01.625 during the same day.

[PTC No. P-2008.0079, 9/4/2008]

### 3.9 **Boiler Steam Rate Monitoring**

The permittee shall monitor and record the hourly steam production rate of the wood-waste boiler which is representative of individual one-hour periods. On a monthly basis, the permittee shall calculate the average hourly steam production rate using each individual hourly steam production value on the basis of a three-hour average. The average hourly steam production values shall be used to determine compliance with the hourly steam production limitation in Permit Condition 3.6 and the emissions limitations.

[PTC No. P-2008.0079, 9/4/2008]

### 3.10 **Multiclone Pressure Drop Monitoring**

The permittee shall install, operate, and maintain a monitor to continuously monitor the pressure drop across the multiclone. The pressure drop shall be recorded once on a daily basis during operation of the wood-waste boiler. The multiclone pressure drop records shall be maintained onsite for the most recent five-year period and shall be made available to Department representatives upon request.

[PTC No. P-2008.0079, 9/4/2008]

### 3.11 **Indicator Range**

The pressure differential shall be measured directly across the inlet and the outlet of the multiclone. An excursion is defined as a daily average differential pressure of less than 1 or greater than 6 inches of water pressure. The differential pressure shall be calculated in accordance with Permit Condition 3.15.

[40 CFR 64.6(c)]

Within 180 days after issuance of this Tier I Operating Permit renewal, the permittee shall submit a testing plan to conduct a performance test for PM/PM<sub>10</sub> to verify or the manufacturers recommended indicator range for the Multiclone in accordance with 40 CFR 64.4(e).

[40 CFR 64.4(e)]

### 3.12 **Response to Excursion**

Corrective action shall be initiated as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions after the daily average differential pressure falls below or exceeds the established indicator range in accordance with 40 CFR 64.7(d). If an excursion occurs, the following steps shall be taken:

- Initial inspection and evaluation of occurrence
- Necessary corrective action to restore operation of the solid fuels wood-waste-fired boiler and multiclone to normal or usual operations within the specified indicator range will be contingent on



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cause of deviation and time of deviation. Such corrective actions may include, but are not limited to, repairs to the solid fuels wood-waste-fired boiler, multiclone, or pressure drop monitoring equipment, minimizing the period of startup, shutdown or malfunction, or transferring production to alternate heat production sources.

- Reporting and recordkeeping of exceedance occurrences shall be maintained in accordance with 40 CFR 64.9(a)(2) and shall include:
  - Brief explanation of the cause of the deviation
  - The time the deviation occurred
  - The time corrective action was initiated and completed, and
  - The corrective action taken

**[40 CFR 64.6(c)]**

**3.13    40 CFR 64.7 - Compliance Assurance Monitoring - Operation of Approved Monitoring**

The permittee shall comply with all applicable operation of approved monitoring requirements of 40 CFR 64.7 in accordance with 40 CFR 64.2, the permittee shall comply with all commencement of operation, proper maintenance, continued operation, response to excursions or exceedances, documentation of need for improved monitoring. The permittee shall refer to the following sections of the rule:

- In accordance with 40 CFR 64.7(a), the permittee shall conduct the continuous monitoring of the differential pressure drop through multiclone unit as required under this part upon issuance of a part 70 or 71 permit that includes such monitoring.
- In accordance with 40 CFR 64.7(b), at all times, the permittee shall maintain the differential pressure drop monitoring equipment.
- In accordance with 40 CFR 64.7(c), except for, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring data in accordance with Permit Condition 3.15. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- In accordance with 40 CFR 64.7(d), upon detecting a pressure differential excursion (as defined in Permit Condition 3.8), the owner or operator shall restore operation of the solid fuels wood-waste-fired boiler and associated multiclone to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include taking any necessary corrective actions to restore normal operation as specified in Permit Condition 3.9 and prevent the likely recurrence of the cause of an excursion.
- In accordance with 40 CFR 64.7(e), after approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the part 70 or 71 permit to address the

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necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 CFR 64.7]

### 3.14 **Boiler Fuel Monitoring**

The permittee shall monitor and record the volume of paper-derived fuel on the days when this fuel is utilized in the wood-waste boiler. The volume of wood-waste fuel combusted in the wood-waste boiler shall be monitored and recorded in the same units as the paper-derived fuel.

[PTC No. P-2008.0079, 9/4/2008]

### 3.15 **Boiler Emissions Limitation Compliance Demonstration**

The permittee shall calculate hourly emissions on a monthly basis using the following emissions factors table and the information required by Permit Condition 3.11.

**Table 3.2 WOOD COMBUSTION EMISSIONS FACTORS**

Pollutant	Emission Factor
PM <sub>10</sub>	0.1100 lb-PM <sub>10</sub> /1,000 lb-steam
CO	0.0861 lb-CO/1,000 lb-steam
NO <sub>x</sub>	0.2271 lb-NO <sub>x</sub> /1,000 lb-steam

Compliance with the annual emission limitations listed in of this permit shall be determined by summing the hourly steam production on a monthly basis, then multiplying the monthly steam production by the emission factors listed in Table 3.3, and then summing the monthly emissions for each consecutive 12-month period.

The permittee may use emission factors developed through Department-approved performance testing in place of the emission factors listed in Table 3.3, provided they are in the same units as the emission factors listed in Table 3.3, and are formally approved by the Department and changed in this permit.

[PTC No. P-2008.0079, 9/4/2008]

## ***Performance Testing***

### 3.16 **Boiler Compliance Testing**

When required, according to Permit Condition 3.16, the permittee shall conduct performance testing on the wood-waste-fired boiler stack to demonstrate compliance with the grain-loading emission standard of 0.080 gr/dscf, corrected to 8% oxygen, as specified by IDAPA 58.01.01.677.

Visible emissions shall be monitored concurrently with each PM test run according to the provisions specified by IDAPA 58.01.01.625. The permittee may use the in-stack COMS and reduced data in lieu of EPA Reference Method 9 to establish the opacity during each PM test run.

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The permittee shall also monitor and record the following for each compliance test run: the steam production, the multiclone pressure drop, and the fuel-feed rate in a manner that allows the actual hourly heat input of the fuel to be determined.

The test shall be performed while combusting wood waste.

[PTC No. P-2008.0079, 9/4/2008]

### 3.17 **Frequency of Boiler Compliance Testing**

If the particulate grain-loading concentration measured during the most recent compliance test is less than or equal to 75% of the particulate grain-loading standard of 0.080 gr/dscf at 8% oxygen, testing is required once every five-years. If the particulate grain-loading concentration measured during the most recent compliance test is greater than 75%, but less than or equal to 90% of the particulate grain-loading standard of 0.080 gr/dscf at 8% oxygen, an additional test shall be required within 36 months of the previous test date. If the particulate grain-loading concentration measured during the most recent compliance test is greater than 90% of the particulate grain-loading standard of 0.080 gr/dscf at 8% oxygen, the permittee shall conduct an additional performance test within 12 months of the previous test date.

[PTC No. P-2008.0079, 9/4/2008]

## ***Reporting Requirements***

### 3.18 **Opacity Records**

The permittee shall maintain on file the continuously recorded in-stack opacity data from the wood-waste-fired boiler stack for the most recent five-year operating period and shall be made available to Department representatives upon request.

[PTC No. P-2008.0079, 9/4/2008]

### 3.19 **40 CFR 64.9 - Compliance Assurance Monitoring – Reporting and Recordkeeping Requirements**

The permittee shall comply with all applicable reporting and recordkeeping requirements of 40 CFR 64.9 in accordance with 40 CFR 64.2, the permittee shall comply with all commencement of operation, proper maintenance, continued operation, response to excursions or exceedances, documentation of need for improved monitoring. The permittee shall refer to the following sections of the rule:

- In accordance with 40 CFR 64.9(a), the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 CFR 70.6(a)(3)(iii) and shall at a minimum included the following:
  - Summary information on the number, duration, and cause of excursions or exceedances and the corrective action taken: 40 CFR 64.9(a)(2)(i)
  - Summary information on the number, duration and cause for monitor downtime incidents: 40 CFR 64.9(a)(2)(ii)
- In accordance with 40 CFR 64.9(b), the owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part. The owner or operator may maintain records on alternative media other than paper in accordance with 40 CFR 64.9(b)(2).

[40 CFR 64.9]

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### 4. NATURAL GAS-FIRED BOILERS (S-BB, S-BC, AND S-BD)

#### *Summary Description*

The primary purpose of the three natural gas-fired boilers identified as S-BB, S-BC, and S-BD is to produce steam for heating the campus in winter and to provide steam to absorption chillers to cool the campus buildings in summer in the event the wood waste-fired boiler is shut down or cannot supply the desired quantity of steam for the facility. Table 4.1 describes the devices used to control emissions from natural gas-fired boiler

**Table 4.1 NATURAL GAS-FIRED BOILERS (S-BB, S-BC, AND S-BD) DESCRIPTIONS**

Emissions Unit(s)/Process(es)	Emissions Control Device	Emissions Point
Natural gas-fired boiler (S-BB)	N/A	Exhaust stack S-BB
Natural gas-fired boiler (S-BC)	N/A	Exhaust stack S-BA/S-BC
Natural gas-fired boiler (S-BD)	N/A	Exhaust stack S-BD

**[PTC No. P-2008.0079, 9/4/2008]**

Table 4.2 contains only a summary of the requirements that apply to the natural gas-fired boiler. Specific permit requirements are listed below Table 4.2.

**Table 4.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Operating and Monitoring and Recordkeeping Requirements
4.1	PM <sub>10</sub>	0.62 lb/hr, 1.54 T/yr for boiler S-BB 0.59 lb/hr, 1.46 T/yr for boiler S-BB 0.32 lb/hr, 0.80 T/yr for boiler S-BB	Permit to Construct No. P-2008.0079	4.4, 4.7
4.1	SO <sub>2</sub>	0.05 lb/hr, 0.12 T/yr for boiler S-BB 0.05 lb/hr, 0.12 T/yr for boiler S-BB 0.03 lb/hr, 0.06 T/yr for boiler S-BB	Permit to Construct No. P-2008.0079	4.4, 4.7
4.1	NO <sub>x</sub>	8.09 lb/hr, 20.22 T/yr for boiler S-BB 7.70 lb/hr, 19.26 T/yr for boiler S-BB 4.20 lb/hr, 10.51 T/yr for boiler S-BB	Permit to Construct No. P-2008.0079	4.4, 4.7
4.1	CO	6.80 lb/hr, 16.99 T/yr for boiler S-BB 6.48 lb/hr, 16.18 T/yr for boiler S-BB 3.53 lb/hr, 8.83 T/yr for boiler S-BB	Permit to Construct No. P-2008.0079	4.4, 4.7
4.1	VOC	0.45 lb/hr, 1.11 T/yr for boiler S-BB 0.42 lb/hr, 1.06 T/yr for boiler S-BB 0.23 lb/hr, 0.58 T/yr for boiler S-BB	Permit to Construct No. P-2008.0079	4.4, 4.7
4.2	PM	0.015 gr/dscf at 3% oxygen by volume	IDAPA 58.01.01.676	4.5
4.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period.	IDAPA 58.01.01.625	4.6

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***Emissions Limits*****4.1 Emissions Limits**

**Table 4.3 NATURAL GAS-FIRED BOILERS (S-BB, S-BC, AND S-BD) EMISSIONS LIMITS**

Source Description	PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
S-BB	0.62	1.54	0.05	0.12	8.09	20.22	6.80	16.99	0.45	1.11
S-BC	0.59	1.46	0.05	0.12	7.70	19.26	6.48	16.18	0.42	1.06
S-BD	0.32	0.80	0.03	0.06	4.20	10.51	3.53	8.83	0.23	0.58

**[PTC No. P-2008.0079, 9/4/2008]**

**4.2 Grain Loading Limit**

Particulate matter emissions from each of the natural gas-fired boiler stacks shall not exceed 0.015 gr/dscf of effluent gas adjusted to 3% oxygen by volume.

**[IDAPA 58.01.01.676, 5/1/94]**

**4.3 Opacity Limit**

Visible emissions from any of the natural gas-fired boiler stacks shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

**[IDAPA 58.01.01.625, 4/5/00]**

***Operating Requirements*****4.4 Heat Input Limit**

Natural gas input to the three boilers combined, designated as S-BB, S-BC, AND S-BD, shall not exceed 1,000 MMscf in any consecutive 12-month period.

**[IDAPA 58.01.01.322.01, 3/19/99]**

***Monitoring and Recordkeeping Requirements*****4.5 Grain-loading Standard Compliance**

No compliance demonstration is required by this permit for the natural gas-fired boilers, designated as S-BB, S-BC, or S-BD, for the purpose of establishing compliance with the grain-loading standard per IDAPA 58.01.01.677.

**[PTC No. P-2008.0079, 9/4/2008]**

**4.6 Visible Emissions Limits Compliance**

No compliance demonstration is required by this permit for the natural gas-fired boilers, designated as S-BB, S-BC, or S-BD, for the purpose of establishing compliance with the visible emissions standard per IDAPA 58.01.01.625, except as required by Permit Condition 2.8.

**[PTC No. P-2008.0079, 9/4/2008]**

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**4.7     Heat Input Limit Monitoring**

The permittee shall monitor and record the heat input (in scf) for each individual boiler listed in Permit Condition 4.6 on a monthly basis. The monthly heat input for each boiler shall be summed each consecutive 12-month period to establish compliance with the operation limitation specified by Permit Condition 4.6.

**[IDAPA 58.01.01.322.01, 3/19/99]**

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### 5. DIESEL-FIRED EMERGENCY IC ENGINES (S-G01, S-G02, AND S-G03)

#### *Summary Description*

The primary purpose of the three diesel-fired emergency IC engine electrical generators, identified as S-G01, S-G02, and S-G03 is to produce electricity for the facility in the event of disruption of electricity to the facility from the power grid. Table 5.1 describes the devices used to control emissions from diesel-fired emergency electrical generators.

**Table 5.1 DIESEL-FIRED EMERGENCY IC ENGINES (S-G01, S-G02, AND S-G03) DESCRIPTIONS**

Emissions Unit(s)/Process(es)	Emissions Control Device	Emissions Point
Diesel-fired emergency IC engine (S-G01)	N/A	Exhaust stack S-G01
Diesel-fired emergency IC engine (S-G02)	N/A	Exhaust stack S-G02
Diesel-fired emergency IC engine (S-G03)	N/A	Exhaust stack S-G03

**[PTC No. P-2008.0079, 9/4/2008]**

Table 5.2 contains only a summary of the requirements that apply to the diesel-fired emergency electrical generators. Specific permit requirements are listed below Table 5.2.

**Table 5.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Operating and Monitoring and Recordkeeping Requirements
5.1	PM <sub>10</sub>	1.15 lb/hr, 0.29 T/yr for boiler S-G01 1.02 lb/hr, 0.26 T/yr for boiler S-G02 1.46 lb/hr, 0.36 T/yr for boiler S-G03	Permit to Construct No. P-2008.0079	5.3, 5.4
5.1	SO <sub>2</sub>	1.07 lb/hr, 0.27 T/yr for boiler S-G01 0.96 lb/hr, 0.24 T/yr for boiler S-G02 1.36 lb/hr, 0.34 T/yr for boiler S-G03	Permit to Construct No. P-2008.0079	5.3, 5.4
5.1	NO <sub>x</sub>	16.32 lb/hr, 4.08 T/yr for boiler S-G01 14.55 lb/hr, 3.64 T/yr for boiler S-G02 20.73 lb/hr, 5.18 T/yr for boiler S-G03	Permit to Construct No. P-2008.0079	5.3, 5.4
5.1	CO	6.80 lb/hr, 0.88 T/yr for boiler S-G01 6.48 lb/hr, 0.78 T/yr for boiler S-G02 3.53 lb/hr, 1.12 T/yr for boiler S-G03	Permit to Construct No. P-2008.0079	5.3, 5.4
5.1	VOC	1.33 lb/hr, 0.33 T/yr for boiler S-G01 1.19 lb/hr, 0.30 T/yr for boiler S-G02 1.69 lb/hr, 0.42 T/yr for boiler S-G03	Permit to Construct No. P-2008.0079	5.3, 5.4
5.2	Visible Emissions	20% opacity for no more than three minutes in any 60-minute period.	IDAPA 58.01.01.625	5.3

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***Emissions Limits*****5.1 Emissions Limits**

**Table 5.3 DIESEL-FIRED EMERGENCY IC ENGINES (S-G01, S-G02, AND S-G03) EMISSIONS LIMITS**

Source Description	PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
S-G01	1.15	0.29	1.07	0.27	16.32	4.08	3.52	0.88	1.33	0.33
S-G02	1.02	0.26	0.96	0.24	14.55	3.64	3.14	0.78	1.19	0.30
S-G03	1.46	0.36	1.36	0.34	20.73	5.18	4.47	1.12	1.69	0.42

**[PTC No. P-2008.0079, 9/4/2008]**

**5.2 Opacity Limit**

Visible emissions from any of the diesel-fired IC engine stacks shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA

58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

**[PTC No. P-2008.0079, 9/4/2008; IDAPA 58.01.01.625, 4/5/00]**

***Operating Requirements*****5.3 Operating Limits**

Each of the diesel-fired IC engines, designated as S-G01, S-G02, and S-G03, shall operate no more than 500 hours in any consecutive 12-month period.

**[PTC No. P-2008.0079, 9/4/2008]**

***Monitoring and Recordkeeping Requirements*****5.4 Operating Limits Monitoring**

The permittee shall monitor and record the total hours of operation for each individual diesel-fired IC engine listed in Permit Condition 5.3 on a monthly basis. The monthly operating hours for each diesel-fired IC engine shall be summed for each consecutive 12-month period to establish compliance with the operation limitation specified by Permit Condition 5.5.

**[PTC No. P-2008.0079, 9/4/2008; IDAPA 58.01.01.322.01, 3/19/99]**



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### 6. INSIGNIFICANT ACTIVITIES

Activities and emission units identified as insignificant under IDAPA 58.01.01.317.01(b) are listed in the Tier I operating permit to qualify for a permit shield.

**Table 6.1 INSIGNIFICANT ACTIVITIES**

<b>Description</b>	<b>Insignificant Activities IDAPA 58.01.01.317.01(b)(I) Citation</b>
Storage tanks less than 260 gallons storage capacity	1
Storage tanks containing VOC products less than 10,000 gallons storage capacity	3
Natural gas-fired emergency generators less than 5 MMBtu/hr heat input	5
Gasoline-fired emergency generator of less than 0.5 MMBtu/hr and fuel less than 1.0 weight percent sulfur	6
Biofuels test engines of less than 0.5 MMBtu/hr and fuel less than 1.0 weight percent sulfur	6
Small emergency generators	7
Printing and silk-screening activities	12
Water chlorination facilities less than 20 MMGal/day	16
Paint booths less than two gallons per day	17
Small boilers less than 5MMBtu/hr	18
Domestic hot water heaters less than 5 MMBtu/hr	18
Small space heating furnaces less than 5 MMBtu/hr	18
Smokehouses under twenty square feet	21
Treated wastewater effluent chlorination facility less than 1 MMGal/day	28
Incinerators	30
Indoor firing range	30
Gas storage area and gas cabinets	30
Indoor swimming pool	30
Space heating boiler – Holm Research Center	30
Space heating boiler – Dairy milk parlor/barn	30
Space heating boiler – Martin lab	30
Space heating boiler - Aquaculture Institute	30
Space heating boiler – Kibbie Dome	30
Space heating boiler – President’s residence	30
Space heating boiler – Kibbie east end addition	30
Space heating boiler – Dairy milk parlor /barn	30
Space heating boiler – Campus police station	30
Space heating boiler – Targhee Hall	30
Space heating furnace – Holm Research Center – 3	30
Space heating furnace - Holm Research Canter – 4	30
Space heating furnace – Yard 1 storage	30
Space heating furnace – U of I Foundation Office	30
Space heating furnace – Meat lab/pavilion – 2	30
Space heating furnace – Targhee Hall	30
Space heating furnace – Business tech incubator	30
Space heating furnace - North Campus Center - 4	30
Space heating furnace – Human Resources	30
Space heating furnace – Industrial Education – 2	30
Space heating furnace – North Campus Center – 1	30
Space heating furnace – Motor pool/garage –2	30
Space heating furnace – Industrial Education – 7	30
Space heating furnace – Golf course club house	30
Space heating furnace - Meat lab/pavilion – 1	30

# AIR QUALITY TIER 1 OPERATING PERMIT NUMBER: T1-2008.0167

<b>Permittee:</b>	University of Idaho	<b>Facility ID No. 057-00025</b>
<b>Location:</b>	Moscow, Idaho	

**Table 6.2 INSIGNIFICANT ACTIVITIES (continued)**

Description	Insignificant Activities IDAPA 58.01.01.317.01(b)(I) Citation
Space heating furnace – Industrial Education – 5	30
Space heating furnace – North Campus Center – 3	30
Space heating furnace – Golf course club house	30
Space heating furnace – Industrial Education – 4	30
Space heating furnace – Ag publications	30
Space heating furnace – Motor pool/garage - 3	30
Space heating furnace – Ag Engineering Office	30
Space heating furnace – Bookstore – 3	30
Space heating furnace – Aquaculture lab - 2	30
Space heating furnace – Hemo-Parasitic barn	30
Space heating furnace – North Campus Center - 3	30
Space heating furnace – Motor pool/garage – 4 (8 Units)	30
Space heating furnace – Sheep house	30
Space heating furnace – Family housing –2 (7 Units)	30
Space heating furnace – Business tech incubator	30
Space heating furnace – Industrial Education – 3	30
Space heating furnace – Bookstore – 2	30
Space heating furnace – North Campus Center – 5	30
Space heating furnace – Family housing - 3	30
Space heating furnace – Dairy house	30
Space heating furnace – Beef house	30
Space heating furnace – Business tech incubator (9 Units)	30
Space heating furnace – Bookstore – 1	30
Space heating furnace – Family housing group (108 Units)	30
Space heating furnace – Motor pool/garage –1	30
Space heating furnace – Domestic water system pump house	30
Space heating furnace – Aquaculture lab – 1	30
Space heating furnace – Industrial Education –1	30
Water heater - Kibbie east end addition	30
Water heater - Holm Research	30
Water heater - Meats lab – 1	30
Water heater - Meats lab – 2	30
Water heater – Targhee Hall	30
Water heater – Martin lab	30
Water heater – Dairy milking parlor	30
Water heater – President’s residence	30
Water heater – Family housing (108 Units)	30
Incinerator burners – Life Science North	30
Incinerator burners – Holm Research	30
Emergency generator – College of Forestry	30
Emergency generator – Library	30
Emergency generator – Kibbie Dome	30
Emergency generator – Theophilus Tower	30
Emergency generator – Administration	30
Emergency generator – McConnell Hall	30
Emergency generator – Student Union Building	30
Emergency generator – Engineering/Physics	30
Biofuels test engines – Engineering Isotopes Lab (3 Engines)	30

- 6.1 There are no monitoring, recordkeeping, or reporting requirements for insignificant emission units or activities beyond those required in the Facility-wide Permit Conditions.

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## 7. TIER I OPERATING PERMIT GENERAL PROVISIONS

### **General Compliance**

1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.  
[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]
2. It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.  
[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]
3. Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.  
[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

### **Reopening**

4. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.  
[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]
5. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

### **Property Rights**

6. This permit does not convey any property rights of any sort, or any exclusive privilege.  
[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

### **Information Requests**

7. The permittee shall furnish all information requested by DEQ, within a reasonable time, that DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.  
[Idaho Code §39-108; IDAPA 58.01.01.122, 4/5/00; IDAPA 58.01.01.322.15.f, 4/5/00; 40 CFR 70.6(a)(6)(v)]

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8. Upon request, the permittee shall furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.  
**[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]**

### ***Severability***

9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.  
**[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]**

### ***Changes Requiring Permit Revision or Notice***

10. The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.  
**[IDAPA 58.01.01.200-223, 4/6/05; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380-386, 7/1/02; 40 CFR 70.4(b)(12), (14), (15), and 70.7(d), (e)]**
11. Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.  
**[IDAPA 58.01.01.381-385, 7/1/02; IDAPA 58.01.01.209.05, 4/5/00; 40 CFR 70.4(b)(14) and (15)]**

### ***Federal and State Enforceability***

12. Unless specifically identified as a “State-only” provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source’s potential to emit, are enforceable: (i) by DEQ in accordance with state law; and (ii) by the United States or any other person in accordance with federal law.  
**[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1) and (2)]**
13. Provisions specifically identified as a “State-only” provision are enforceable only in accordance with state law. “State-only” provisions are those that are not required under the Federal Clean Air Act or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.  
**[Idaho Code §39-108; IDAPA 58.01.01.322.15.k, 3/23/98]**

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### ***Inspection and Entry***

14. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
  - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
  - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.i, 5/1/94; 40 CFR 70.6(c)(2)]

### ***New Requirements During Permit Term***

15. The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/6/05; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

### ***Fees***

16. The owner or operator of a Tier I source shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.387 through IDAPA 58.01.01.397.

[IDAPA 58.01.01.387, 4/2/03; 40 CFR 70.6(a)(7)]

### ***Certification***

17. All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

### ***Renewal***

18. a. The owner or operator of a Tier I source shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.
- b. If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

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### ***Permit Shield***

19. Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
- Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
    - DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
  - The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
  - Nothing in this permit shall alter or affect the following:
    - Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;
    - The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
    - The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
    - The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

**[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 4/5/00;  
IDAPA 58.01.01.322.15.m, 325.01, 5/1/94; IDAPA 58.01.01.325.02, 3/19/99;  
IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]**

### ***Compliance Schedule and Progress Reports***

20.
  - For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
  - For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
  - For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
  - For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.
- [IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 5/1/94; IDAPA 58.01.01.314.10, 4/5/00;  
40 CFR 70.6(c)(3) and (4)]**

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### ***Periodic Compliance Certification***

21. The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as follows:
- The compliance certifications for all emissions units shall be submitted annually from October 16<sup>th</sup> to October 15<sup>th</sup> or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by DEQ.
  - The initial compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices;
  - The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):
    - The identification of each term or condition of the Tier I operating permit that is the basis of the certification;
    - The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under Subsections 322.06, 322.07, and 322.08;
    - The status of compliance with the terms and conditions of the Tier I operating permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Subsection 322.11.c.ii. above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and
    - Such information as the Department may require to determine the compliance status of the emissions unit.
  - All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

**[IDAPA 58.01.01.322.11, 4/6/05; 40 CFR 70.6(c)(5)(iii) as amended,  
62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]**

### ***False Statements***

22. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

**[IDAPA 58.01.01.125, 3/23/98]**

### ***No Tampering***

23. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

**[IDAPA 58.01.01.126, 3/23/98]**

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### ***Semiannual Monitoring Reports***

24. In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months. The permittee's semiannual reporting periods shall be from April 16<sup>th</sup> to October 15<sup>th</sup> and October 16<sup>th</sup> to April 15<sup>th</sup>. All instances of deviations from this operating permit's requirements must be clearly identified in the report. The semiannual reports shall be submitted to DEQ within 30 days of the end of the specified reporting period.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

### ***Reporting Deviations and Excess Emissions***

25. The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

### ***Permit Revision Not Required***

26. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

### ***Emergency***

27. In accordance with IDAPA 58.01.01.332, an "emergency" as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 4/5/00; 40 CFR 70.6(g)]